Combat Arms Earplug

by

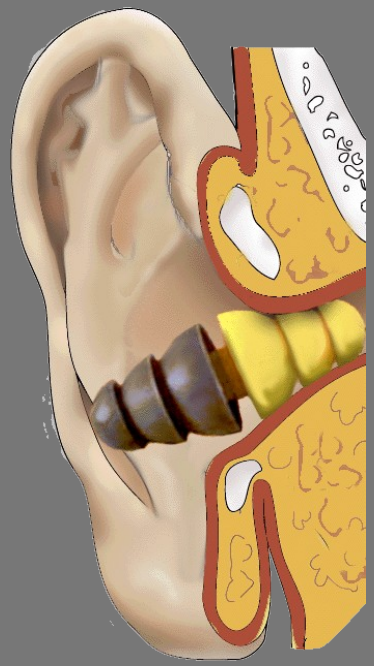
Marc J. Stevens, LTC, MS

Winn Army Community Hospital

Hearing Conservation POC

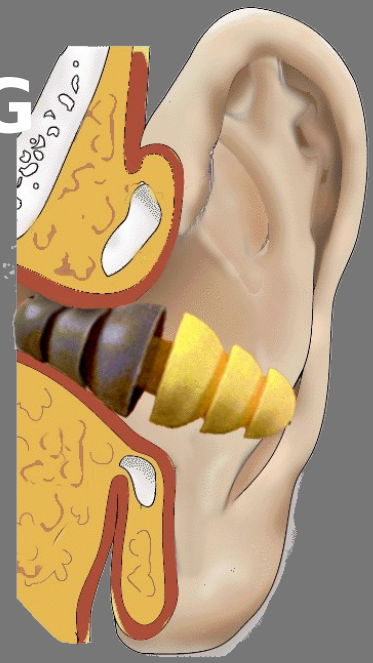
- LTC Stevens: 780-6916
- Email: Marc.Stevens@se.amedd.army.mil

- SGT Leo: 780- 5590
- Email: Douglas.Leo@se.amedd.army.mil



COMBAT ARMS EARPLUG

- Insert YELLOW plugs for weapons fire in dismounted mode.
- Insert OLIVE DRAB plugs for steady state noise in and around aircraft, noisy vehicles and watercraft, etc.



- Keep filter holes free of earwax and other debris.
- Check proper insertion for slight tension by gently tugging on plugs.
- Ensure that plugs are cleaned with soap and water and dry when returned to case.

NSN 6515-01-466-2700

USACHPPM
Readiness thru Health
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

The Problem and the Ideal Solution

"Earplugs or muffs appear to be counter-indicated, with regard to speech communication in the situation where they are probably needed most – namely, in the presence of intermittent, impulsive noise, such as gunfire. Here, the wearer of earplugs or muffs cannot hear weak speech during silent intervals between impulses. The ideal solution would be a nonlinear device that would let weak sounds through at full strength but would attenuate intense sounds." pp. 68-69

K.D. Kryter, The Effects of Noise on Man (1970) Academic Press

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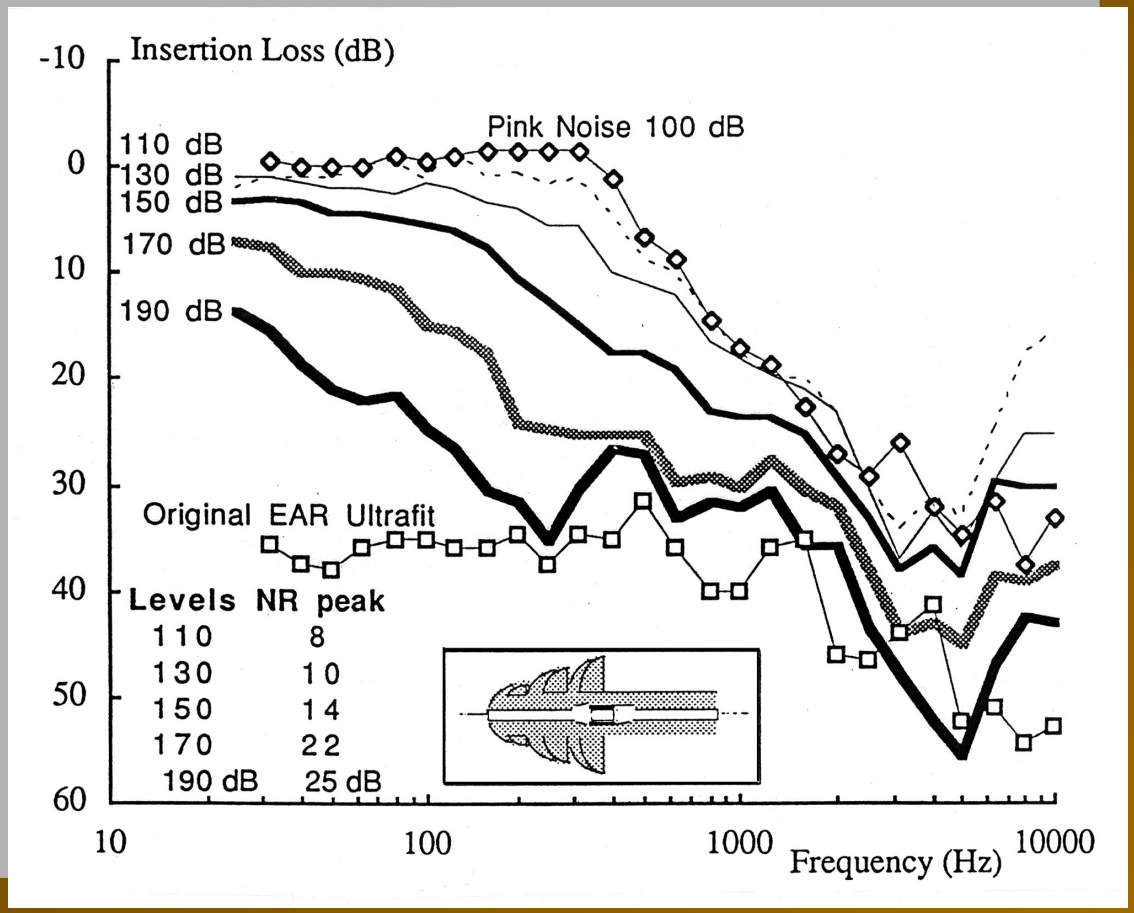

Figure 6

Insertion Loss and NR peak afforded by the ISL-EAR Ultrafit earplug for different levels of the impulses (1/3 oct. bands). Insertion Loss afforded by the ISL-EAR Ultrafit earplug when measured with a pink noise at 100 dB (full line and diamonds). Insertion Loss afforded by the original EAR Ultrafit earplug when measured with a pink noise at 120 dB (full line and squares). (after Dancer)

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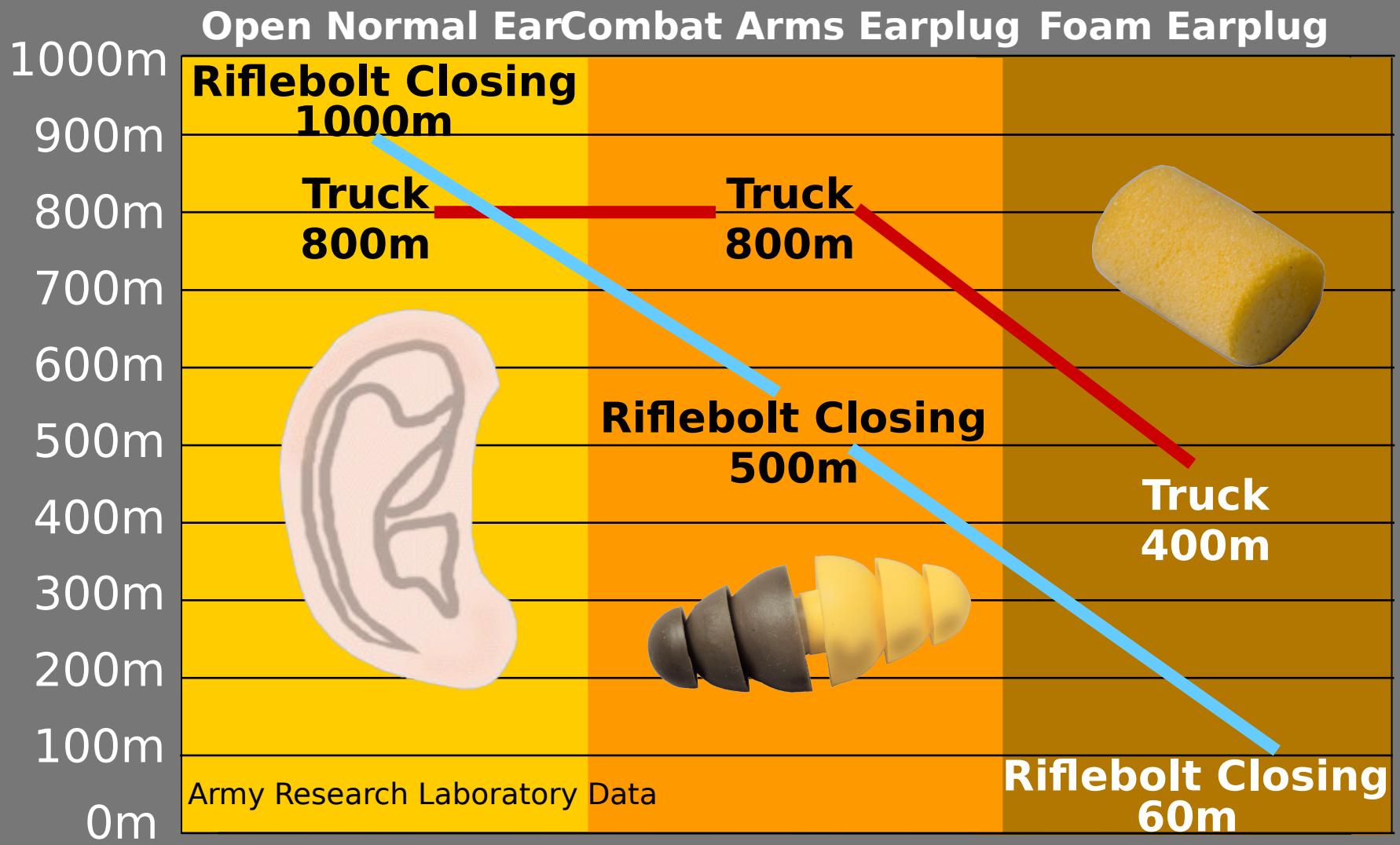
Detection of Sound by



Low Suburban Environmental Noise with Acceptable (H-1 Profile)
Hearing Ability

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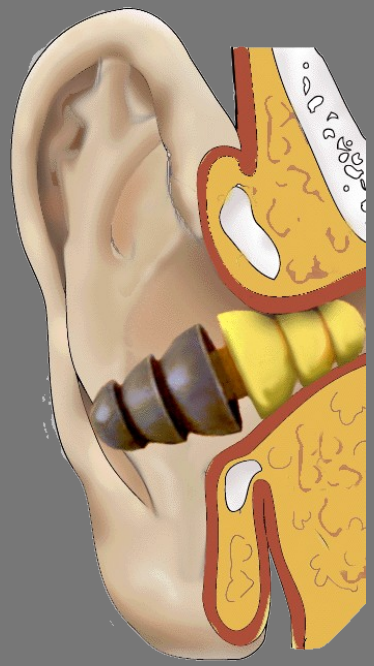

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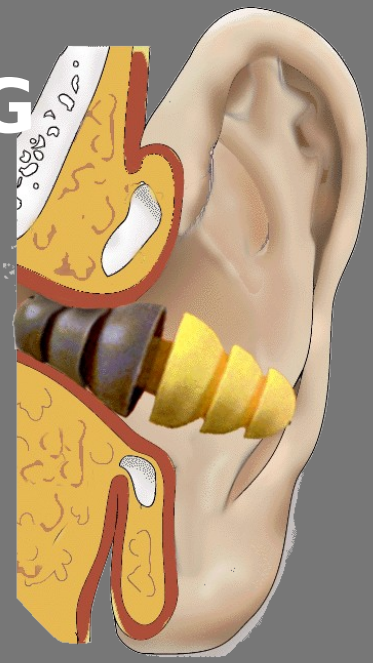

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Army Regulations

AR 385-10

AR 40-5

DA Pam 40-501

Hearing Conservation
is
Combat Readiness Medicine